JVC

SERVICE MANUAL

STEREO CASSETTE DECK

MODEL KD-V6 A/B/C/E/J/U



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Features

- 1. Three-head system enables monitoring of the signals immediately after they have been recorded
 - Independent recording, playback and erase heads
 - SA (Sen-Alloy) recording head
 - Solid head housing casting
- 2. 2-color fluorescent meters with digital peak function
 - Memory and peak hold facility
- 3. 2-way digital counter
 - 4-digit tape counter with 2 memory points
 - Stopwatch function indicates recording/ playback lap time
- 4. Dolby* B & C noise reduction systems
 - Dolby C NR system and Dolby B NR system for recording and playback
 - Multiplex filter switch
- 5. Microcomputer-controlled mechanism
 - Auto record muting
 - Index scan

- Auto repeat
- Mechanism mode indicators
- 6. 2-motor full-logic mechanism
 - Motor exclusively for mechanical drive
 - Silent operation
- 7. DC configured recording/playback amplifiers
 - Play head and playback amplifier are direct coupled
- 8. Music Scan mechanism with separate buttons
 - Single Music Scan in both directions "Under license of Staar S.A., Brussels, Belgium."
- 9. Timer start with safety lock
- 10. Auto tape select mechanism
- 11. Remote control jack on front panel

*Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Specifications

Type Track system Tape speed

: Stereo cassette deck : 4-track, 2-channel : 1-7/8 inch/sec (4.8 cm/sec)

Frequency response

: (-20 dB recording) Metal tape:

 $20 - 19,000 (\pm 3 dB)$ 15 - 21.000 Hz CrO₂ tape:

20 - 19,000 Hz (±3 dB) 15 - 21,000 Hz

Normal tape:

20 - 18,000 Hz (±3 dB) 15 - 20,000 Hz (0 dB recording)

Metal tape:

20 - 14,000 Hz (±3 dB) CrO₂ tape:

20 - 9,000 Hz (±3 dB)

Normal tape:

20 - 9,000 Hz (±3 dB) 58 dB (S = 1 kHz, K3 = 3 %,

N = A-weighted, Metal tape) The S/N is improved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz \sim 10 kHz with DOLBY CNR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with ANRS/DOLBY

B NR on.

Improvement

of MOL

S/N ratio

: 4 dB at 10 kHz with DOLBY C NR on.

Wow and flutter (Forward direction) : 0.05 % (WRMS) 0.16 % (DIN 45 500) (with MAXELL UD tape)

Crosstalk

Harmonic distortion

: K3; 0.5 % THD; 1.0 % (Metal tape, 1 kHz 0 VU)

Channel separation: 40 dB (1 kHz)

Heads

: SA head for record

: 65 dB (1 kHz)

2-Gap ferrite head for erasing

METAPERM head for

playback

Motor

: Electric governed DC Motor

for capstan and reel x 1 DC Motor (for FF & Rewind) x 1

DC Motor (for Mechanical

drive) x 1

Fast forward time : Approx. 100 sec. with C-60

cassette

Rewind time : Approx. 100 sec. with C-60

cassette

Input terminals

Input jack x 2 ; Min. input level; 80 mV

Input impedance; 80 k Ω

Output terminals

Output level; 0 - 500 mV Output jack x 2

Output impedance; $5 k\Omega$

; Output level; Phones jack x 1

 $0-0.6~\text{mW/8}~\Omega$ Matching impedance;

 $8 \Omega - 1 k\Omega$

Other terminal : Remote control x 1

Power requirement : AC 240/220/120 V, 50/60 Hz

(KD-V6A/B/E)

AC 120 V, 60 Hz (KD-V6C/J) AC 240/220/120/100 V, 50/60 Hz

(KD-V6U)

Power consumption: AC 18 watts

Dimensions

: 17-1/8" (435 mm) W 4-3/8" (110 mm) H 11-1/8" (282 mm) D (with feet, buttons.

switches)

: Approx. 10.0 lbs (4.5 kg)

: Pin cord 2

Design and specifications subject to change without notice.

-20 dB Recording

Weight

Metal tape;

15-21000 Hz (DIN 4550)

Chrome tape;

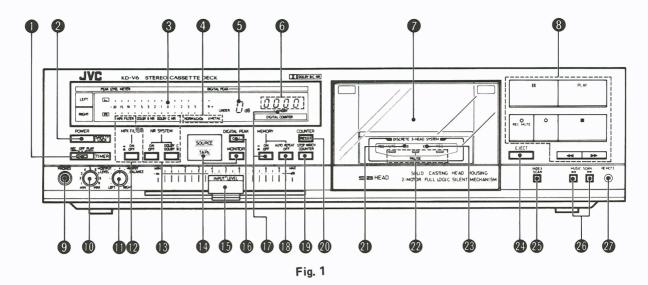
15-21000 Hz (DIN 4550)

Normal tape:

15-20000 Hz (DIN 4550)

No. 4230

Location of Controls and Connections



NODE REDUCTION 1-STATE MANUFACTURED BY VICTOR COMPINIT OF JAPAN, I.D. TOXYO, JAPAN. MADE IN JAPAN

ATTENTION. POUR CVITE TOUT BIGGIL D'ELECTRO
OCALY AND THE DOUBLE 0 SYMBE, ARE TRADEGAMES OF
OCALY LABORATORIS LICENSING CORPORATION.

ATTENTION. POUR CVITE TOUT BIGGIL D'ELECTRO
OCALY LABORATORIS LICENSING RESTA ARCEIN
PREVAILEMENT FLOE A DEPARTMENT OF A RECEIN
PREVAILEMENT COMPINIT (LEFT

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MANUFACTURED BY VICTOR COMPINIT OF JAPAN, I.D. TOXYO, JAPAN. MADE IN JAPAN

Fig. 2

- **1** TIMER switch
- 2 POWER switch
- @ PEAK LEVEL METER
- ♠ TAPE indicators (NORM/CrO₂/METAL)
- **5** DIGITAL PEAK indicator
- 6 DIGITAL COUNTER
- **7** Cassette holder
- Cassette operation buttons
- Headphone jack (PHONES)
- **10** OUTPUT LEVEL control
- **1** INPUT BALANCE control
- MPX FILTER switch and indicator
- **B** NR SYSTEM switches and indicators
- MONITOR switch and indicator
- (B) INPUT LEVEL control
- 1 DIGITAL PEAK button

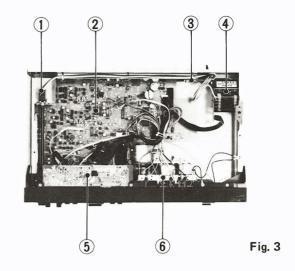
- **MEMORY** switches and indicator
- (B) AUTO REPEAT switch
- COUNTER switch
- **@** COUNTER RESET button
- REC MUTE indicator
- Mechanism mode indicators
- REC indicator
- **2** EJECT button
- 1 INDEX SCAN button
- MUSIC SCAN buttons
- **②** REMOTE control jack
- **®** VOLTAGE SELECT switch
- **4** LINE IN terminal
- **1** LINE OUT terminal

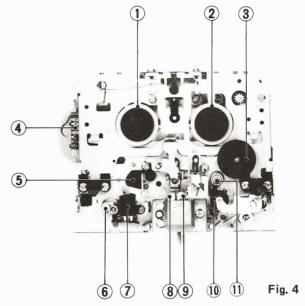
Location of Main Parts

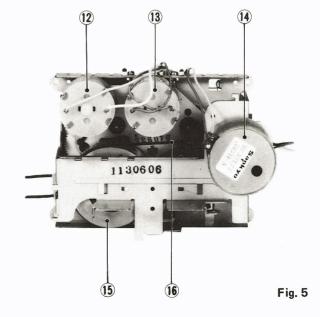
- 1. Power switch
- 2. Amplifier P.C.B. assembly
- 3. Voltage selector
- 4. Power transformer
- 5. Display P.C.B. assembly
- 6. Mechanism assembly

- 1. Supply reel disk assembly
- 2. Take-up reel disk assembly
- 3. Take-up idler
- 4. Cam switch P.C. board
- 5. Tension assembly
- 6. Adjust screw (for height of the erase head)
- 7. Erase head
- 8. Recording head
- 9. Playback head
- 10. Pinch roller
- 11. Capstan

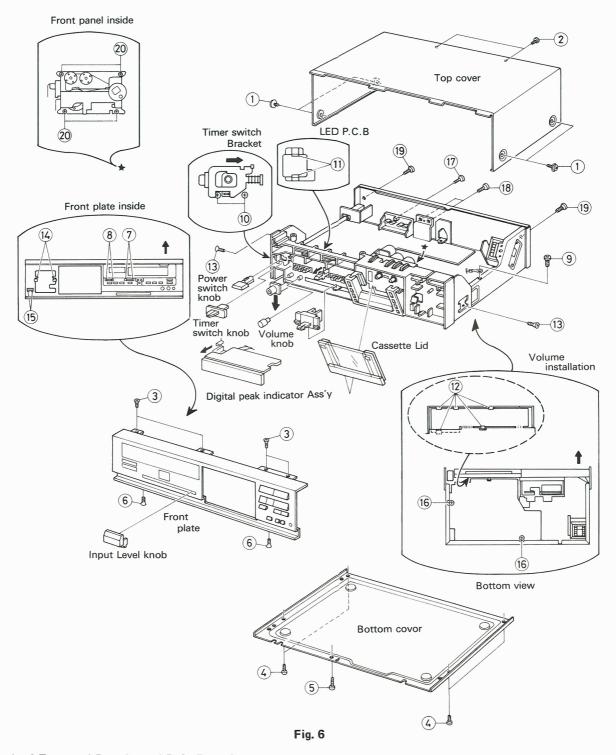
- 12. Cam switch
- 13. Reel motor
- 14. Capstan motor
- 15. Flywheel assembly
- 16. Main belt







Removal of the main parts



Removal of External Panels and P.C. Board

Remove in the numbered order. Also refer to the exploded view on page 19.

1. Top cover

- 1) Remove the four screws 1 holding both sides of the cover.
- 2) Remove the two screws (2) holding the back side of the cover.

2. Front plate and bottom cover

- 1) Remove the four screws 3 holding the top of the front panel.
- 2) Remove the four screws 4 and one screw 5 holding the bottom cover.
- 3) Remove the two screws (6) holding the bottom of the front plate.
- 4) Pull out the input level control.

3. Removing the front plate from the P.C. board

- 1) Widen the hooks (7) holding the digital peak (CALL) switch P.C. board to remove it.
- 2) Widen the hooks 8 holding the counter reset switch P.C. board to remove it.
- 3) Remove the mechanism control switch connector from the main P.C. board.
- 4) Remove the screw 9 holding the ground plug to the right chassis.

4. Peak Indicator P.C. Board

Pull forward to remove the P.C. board.

5. Switch P.C. board assembly

 Slightly lift the knobs of memory/auto repeat/counter switch (to remove from the stoppers) and draw the switch assembly backward.

(Perform this with the switches up.)

- 2) Remove the MPX filter/Dolby NR switch etc. assembly in the same way as 1).
- 3) Remove the parallel wire from the connectors on the P.C. board.

(When the digital indicators are removed.)

6. Timer switch P.C. board assembly

- 1) Remove the knob.
- 2) Slide the timer bracket to the right to remove it.
- 3) Remove the two screws (10) holding the timer switch.

8. Headphones jack

Press down to remove it.

8. LED indicators (SOURCE/TAPE)

Widen the two hooks 11 holding the indicator P.C. board to remove it.

9. Front panel (Mold parts are used inside.)

1) Remove the five hooks 12 holding the volume P.C. board.

(Widen enough to remove fully.)

- 2) Remove the two screws (13) holding the panel from both sides.
- 3) Pull out the panel (with the mechanism assembly).

10. Mechanism control switch board and earphone jack

- 1) Remove the two hooks 14 holding the switch board.
- 2) Open and remove the hooks (15) holding the jack.

11. Oil damper

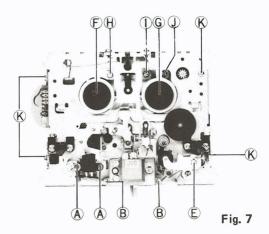
Disengage the hook holding the damper and remove with upper side widen.

12. Main P.C. board

- 1) Remove the screw (16) holding the main board.
- 2) Remove the screw (17) holding the pin jack.
- 3) Remove the screw (18) holding the heat-sink.
- 4) Remove the screw 19 holding the rear panel and disengage the power cord stopper.
- 5) Pull the main board backward.

13. Removing the whole mechanism section

Remove the four screws 20 holding the mechanism assembly to the panel. (When removing the mechanism assembly from the panel, set the door lock arm to the eject mode.)



Removing the Mechanical Parts

1. Erase head

Remove the two screws (A).

2. Record/play head assembly (Replace the unit.)

- 1) Remove the two screws B holding the head mount case.
- 2) Remove the screws (C) and (D) holding the head mount.

3. Pinch roller assembly

Remove the E-washer (E) together with the torsion spring.

4. Supply reel disk

Pull out the reel stopper (F).

5. Take-up reel disk

Pull out the reel stopper (G).

6. Flywheel

- 1) Remove the three screws (K) holding the FM bracket.
- 2) Remove the belt from the flywheel and attach to the holder.
- 3) Pull out the flywheel (at this time, the roller and oil washer are disengaged, so be careful not to lose them).

7. Capstan motor

Remove the three screws holding the motor to the FM bracket. Pull out the motor pully.



8. Reel motor

Remove the two retaining screws (H) and (I).

9. Mechanism drive (cam) motor

Remove the two retaining screws (J) and (K).

Main Adjustments

1. Measuring instruments for adjustment

- 1. Audio generator (range: 50 Hz 20 kHz and output of 0 dB with terminal impedance of 600 ohms)
- 2. Attenuator (with impedance of 600 ohms)
- 3. Electronic voltmeter
- 4. Reference tapes

TMT702 (for head azimuth adjustment) 14 kHz,

VTT712 (for tape speed or wow and flutter adjustment)

VTT664 (reference level) 1 kHz,

VTT739 (playback frequency response),

TMT6447 (for music scan),

TMT6448 (for music scan)

5. Recording reference tapes

The reference tapes should be TS-5 (UD), TS-6 (SA) and TS-7 (ME) or their equivalent.

(Use the designated reference tape of this division.)

- 6. Resistors 600 ohms (for attenuator matching)
- 7. Distortion meter (band pass filter)
- 8. Torque gauge (cassette) CTG-N
- For mechanism 9. C-120 tape (for confirming the tape adjustment transport)

Notice: The VTT712 has improved accuracy and TMT702 is newly added. The substitution of BTT658 (10 kHz) is possible.

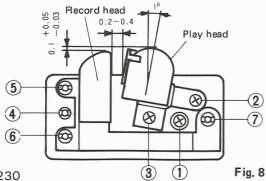
2. Mechanism adjustments and repairs

(Mechanism adjustment or confirmation are required before performing the electrical circuit adjustment.)

Items	Adjustment	Adjusting point	Standard value	Remarks
Pad Clearance & Erase Spring head	1) Make sure that the moving part of the erase head assembly move smoothly around the pivot of screw 2 and also confirm that there is clearance A as shown in the figure during the playback mode. 2) Check the tape transport as follows. Adjust the height of the erase head with screw 2 while observing curl in the tape transport with C-120 tape and adjust so no curl will appear in the tape guide section of the play head or the erase head. Tape guide Tape Tape guide Tape Correct Incorrect Lock the screws after adjustment.	2		Be sure to perform this adjustment after erase head replacement. Screwdriver 1-2 mm Notes: After adjustment, confirm by ear how effectively the erasure is performed using a metal tape. After replacement of the erase head, play or record head, loosen the associated wires and clamp a new head then confirm that the new head movement is normal.
	Look the solows after adjustificitt.			

Replacement and adjustment of record head and play head

This deck has three independent heads and the head units are completely separate. However, they are assembled and adjusted on a single head board, therefore they can be dealt with as one unit in principle. Accordingly, replace or adjust the head assembly when any head is defective. In addition,



since certain screws have been precisely adjusted in the factory, care should be taken when handling them as well as referring to the following adjustment items (1. Reference dimensions, 2. Screw explanations, 3. Adjustment methods).

1. Reference dimensions

The reference dimensions of record head and play head are shown in Fig. 7. After checking or replacing the head assembly because of characteristic deterioration, confirm that there is no big disagreement.

2. Screw explanations

The screws marked O require adjustment when repairing. The screws marked X are basically required not to move when repairing.

- (1) is the head base fixing screw.
- (2) and (3) marked X are the play head fixing screws (for adjusting the relative position to the record head).

- (4) marked O is a special nut for playback azimuth adjustment.
- (5) marked X is a special nut for the record head height adjustment.
- (6) marked X is a special nut for the record head tilt adjustment.
- (7) marked is a special nut for the record head azimuth adjustment.

3. Adjusting methods

Perform the following adjustment procedure after head assembly replacement.

- 1) Play head azimuth
- Connect the LINE OUT jacks to an electronic voltmeter (two-meter VTVM).

- Play test tape TMT-702 and adjust the screw 4 so that the output of electronic voltmeter is optimized.
- 2) Record head azimuth
- Connect the LINE OUT jacks to a two-meter VTVM.
- Observe the simultaneous monitor output with the two-meter VTVM while recording a 14 kHz signal at 0 VU -20 dB and adjust the screw 7 so that the output is maximum.

Note: Perform this adjustment using the stable middle part of side A of TS-5 (UD) and also confirm it using TS-6 (SA) and TS-7 (ME).

The above adjustments are recommended to check after fixing the mechanical section to the cabinet.

Item	Adjustment	Adjusting points	Standard value	Remarks
Motor speed adjustment	Play back test tape VTT712 and connect electronic counter to the LINE OUT jacks of deck to measure the speed then adjust the semi-fixed resistor on the motor P.C. board by turning it so that the reading of the meter is 3,000 Hz.	Semi-fixed resistor on motor P.C. board	3,000 Hz	When the electronic counter is incorporated in the wow/flutter meter, just connect the electronic counter to the input jacks of the meter.
Wow/flutter	Play VTT712 and plug the wow/flutter meter into the LINE OUT jacks of the deck then confirm that the reading of the meter is less than 0.08% (WRMS).			Even when it is within a standard value, if its variation becomes more than 0.08% (WRMS), repairs are required because of possible claims.
Playback torque	Measure using the torque testing cassette tape CTH-N.		40 — 70 g-cm	
Fast-forward torque	Set the unit in the fast forward mode and measure the torque in the same way as above.		More than 80 g-cm	
Rewind torque	Set the unit in the rewind mode and measure the torque in the same way as above.		More than 80 g-cm	
Music scan check	 Music scan operation should be performed when using TMT-6447 tape. Music scan operation should not be performed when using TMT-6448 tape. 			

4. Positions of electrical adjustment

Display P.C. board

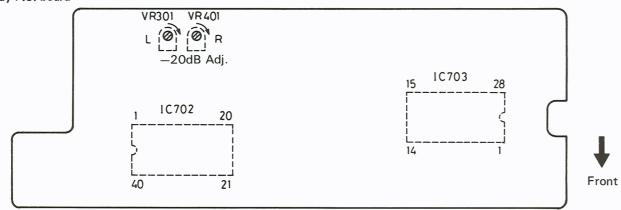


Fig. 9

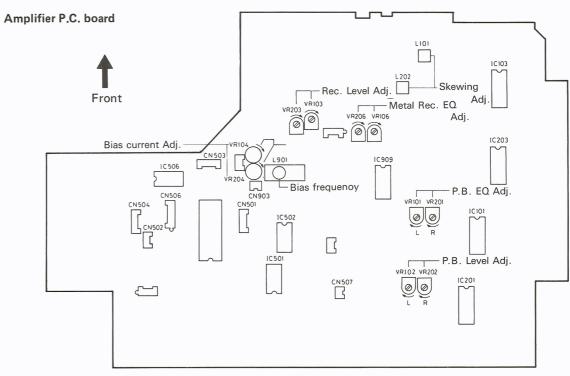


Fig. 10

5. Electrical circuit adjustment procedure

Perform the electrical circuit adjustment after the tape transport and head angle adjustments. Adjustment should be performed in the order 1, 2, 3, . . .

Set the MPX: OFF, output volume control to maximum when measuring.

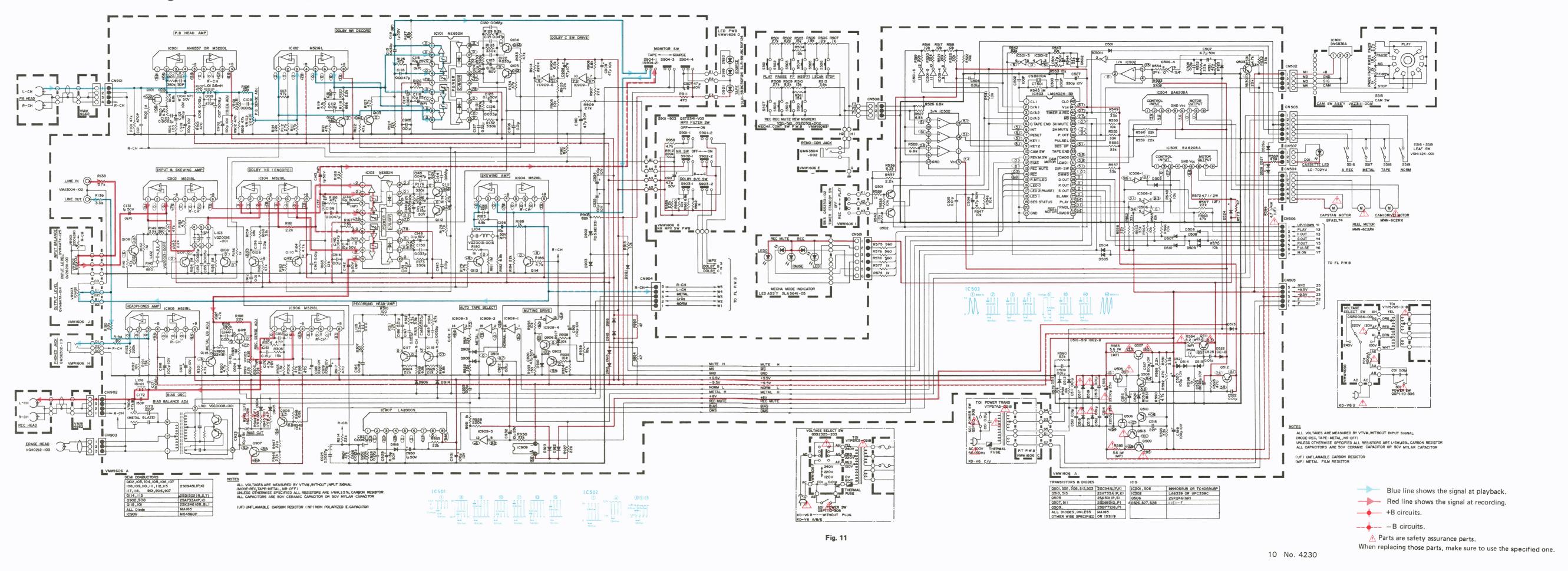
	Items	Adjustment	Adjusting point	Standard value	Remarks
1	Playback level adjustment	 Set the Dolby NR switch to OFF. Set the monitor switch to TAPE. Play back test tape VTT-664 and adjust VR102 and VR202 so that the output level at LINE OUT is -4 dBs. 	VR102, 202 (Amp. P.C.B.)	−4 dBs	
2	Playback frequency response	Play back test tape VTT739 (1 kHz, 10 kHz) and adjust VR101 and VR202 so that outputs of 1 kHz and 10 kHz are the same.	VR101, 201 (Amp. P.C.B.)	Reference frequency 1 kHz; 0 ± 2 dB at 10 kHz	
3	SKEWING coil adjustment	 Set the monitor switch to SOURCE. Apply a 17.5 kHz signal of around -20 dB to the LINE IN jacks. Adjust the input level control with the Dolby NR switch set to OFF so that the output of the LINE OUT jacks is -4 dBs. Set the NR switch to ON and Dolby C NR switch to ON. Adjust L102 and L202 so that the output at the LINE OUT jacks is -4 dB. Check that level difference is within ±0.5 dB in the frequency range of 10 kHz to 20 kHz. 	VR903 (Input level) VR901 (Balance) L102, 202		

Items	Adjustment	Adjusting point	Standard value	Remarks		
4 Peak me checking		VR301, 401 Display board				
5 Bias oscillatir frequence		L901				
6 Rec/Plar frequence response		VR104 204 VR106, 206	Reference frequencies: 1 kHz, 0±3dB at 50 kHz 0±3 dB at 12.5 kHz			
	Decrease in high frequencies	Appropriate bias current Decrease in high frequencies High bias current				

	Item	Adjustment	Adjusting point	Standard value	Remarks
7*	Recording level	 Apply a 1 kHz input of around -10 dBs signal to the LINE IN jacks and adjust the recording control so that LINE OUT is -4 dBs. After checking that the PEAK HOLD meter is at 0 dB, perform 0 dB recording on both left and right channels using normal tape. When playing back the recorded signals, adjust the recording signal current with VR103 and 203 so that 0 dB is obtained. 	VR103, 203	0 dB	The level difference between the left and right channels should be within 1 dB for normal and CrO2 tapes. Perform the adjustment using normal tape, the level difference between chrome tapes and metal tapes should be less than 1.5 dBs and the level difference between the left and right channels should be less than 1.0 dB.
8	Checking of recording signal distortion	 When LINE OUT is -4 dBs, record a 1 kHz signal so that the peak meter shows 0 dB. Check the output with a distortion meter and confirm that it is in the range of standard value. 		Normal tape; less than 2.5% CrO ₂ tape; less than 3% Metal tape; less than 2%	This check should be done after the adjustment of bias current and recording level.
9	Checking recording S/N ratio	 Record a 1 kHz, 0 dB peak hold meter input. Stop the input by disconnecting the terminal during recording and perform non-signal recording. Play back the recorded part. Measure the ratio of the 0 dB recorded part to the non-signal recorded part using VTVM and check that the value conforms to the standard value. 		Normal tapes; more than 42 dB Chrome tapes; more than 42 dB	Set the recording control to maximum and apply an input of around -21 dB (an input of indicating 0 peak hold meter) to the line input jacks.
10	Checking erasing coefficient	 Apply a 1 kHz signal from the LINE IN jacks and adjust the recording volume so that the level meter indicates 0 dB. Perform recording with the signal boosted by 20 dB. Rewind the recorded part and erase part of the recording. Measure the ratio of the recorded part to the erased part using a VTVM. 		More than 65 dB	Connect a B.P.F. (Band Pass Filter) between the deck and VTVM for measurement. Use a metal tape for checking. Input (1 kHz 0 VU +20 dB) (1 kHz) Band pass Filter Electronic voltmeter

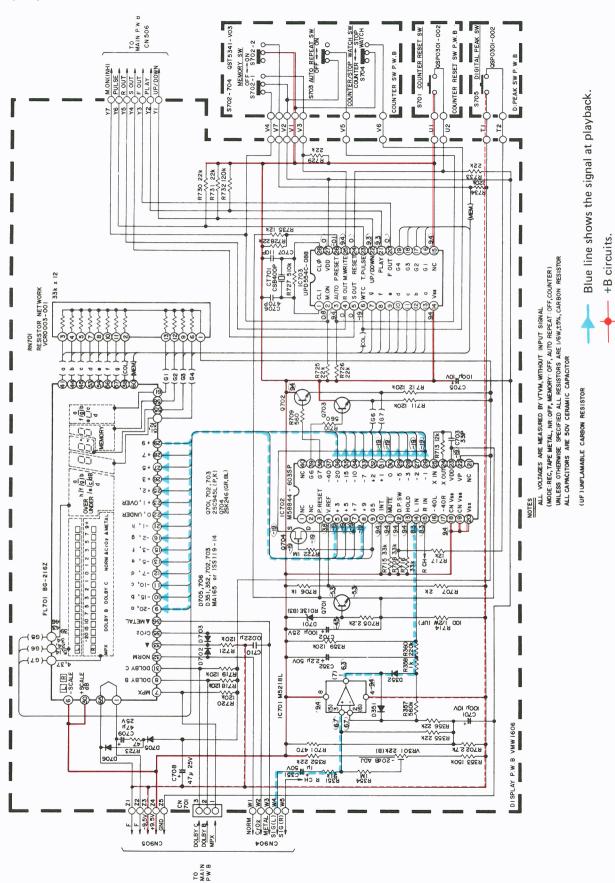
Item			Adjustment and checking					
Checking of			Frequency level	Increase in output Deviation				
Dolby recording	Dolby B recording	INPUT; LINE IN Test points; TP102, 201	1 kHz Cal —40 dB 5 kHz Cal —20 dB	+5.7 dB ± 1 dB +3.5 dB ± 1.5 dB				
circuit (recording	Dolby C recording	Testing reference level; 400 Hz, —6 dBs	1 kHz Cal 1 kHz Cal —40 dB	0 dB ± 1 dB +17 dB ± 1.5 dB				
mode)	2	(= Cal. level)	5 kHz Cal —20 dB 1 kHz Cal	$+3.5 \text{ dB} \pm 1.5 \text{ dB}$ 0 dB \pm 1 dB				

Standard Schematic Diagram of KD-V6 (1)



Standard Schematic Diagram of KD-V6 (2)

(Display circuit)



Block Diagram

to use the

 \triangle Parts are safety assurance parts. When replacing those parts, make sure

-B circuits.

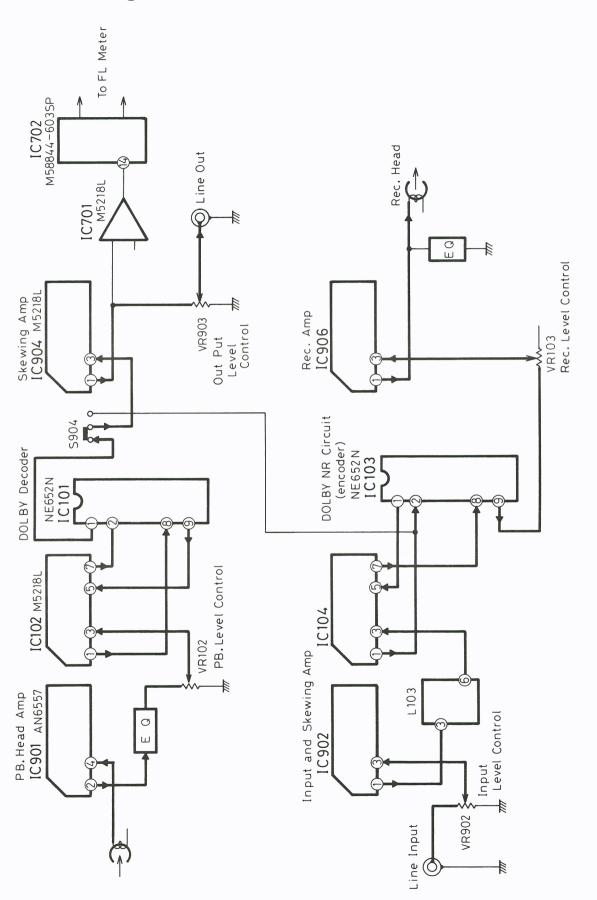
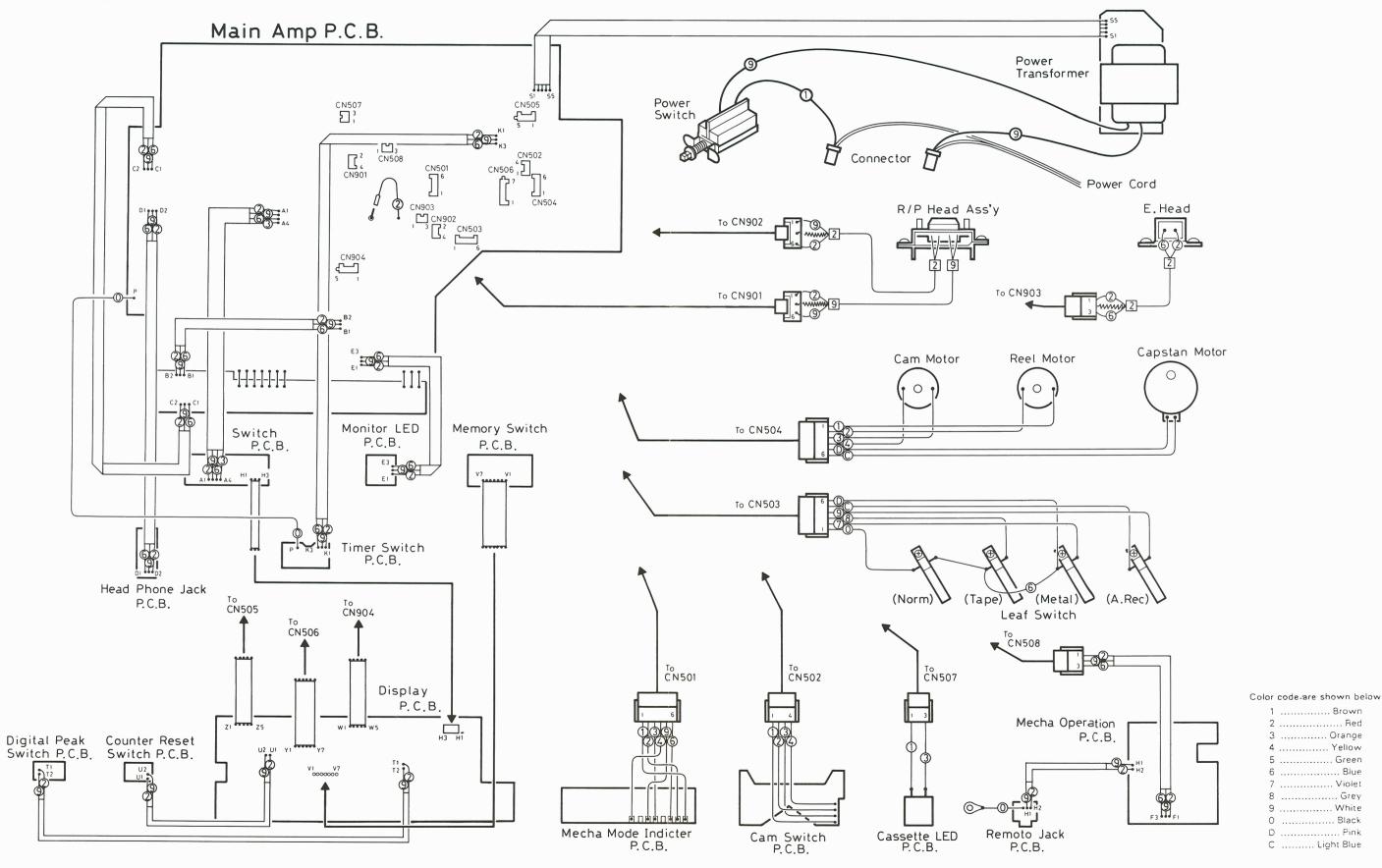


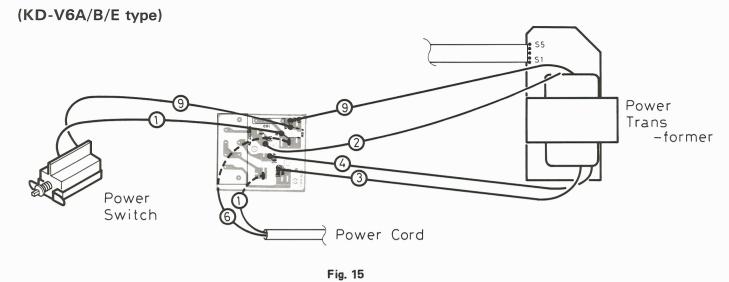
Fig. 12

Wiring Connections (1)

(KD-V6C/J type)



Wiring Connections (2)



(KD-V6U type)

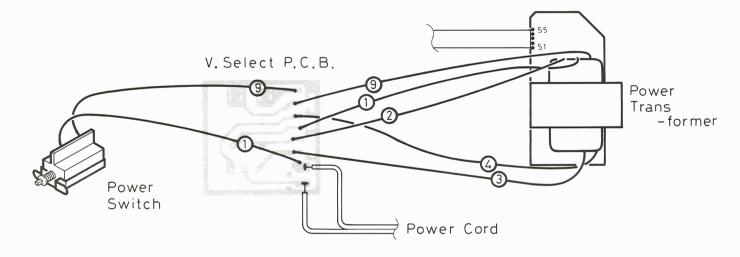


Fig. 16

Voltage Measured Values

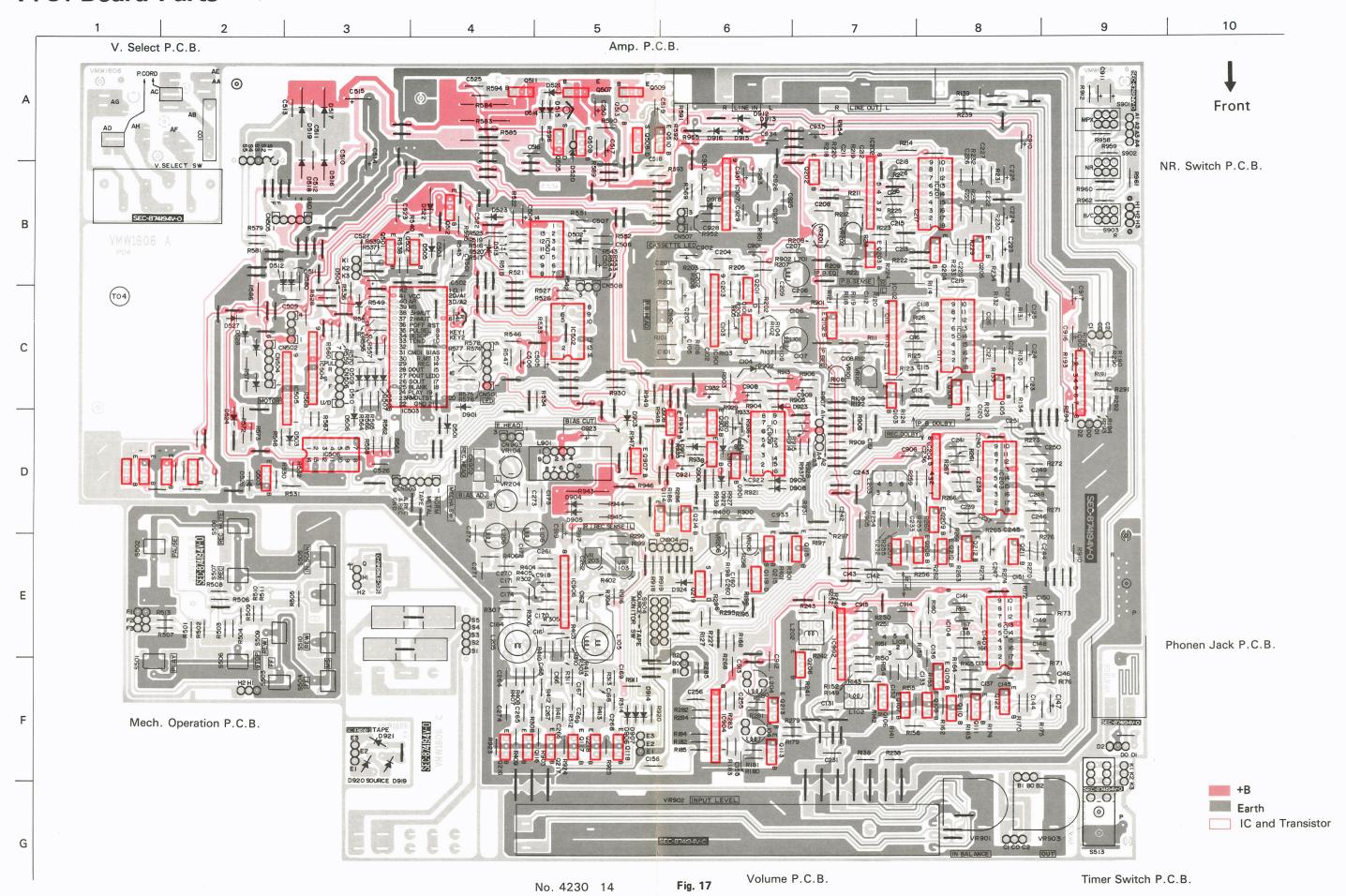
PIN No. Ref No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
IC101	0.02	-0.03	0	0	-7.75	0	0	0.03	-0.03	0	0	0.01	7.77	-7.65	0	0	0	0			
102	0.03	0	0	-7.75	-0.03	-0.03	-0.03	7.78													
103	-0.05	0.05	0	0	-7.74	0	0	-0.05	0.04	0	0	0.02	7.77	-7.65	0	0	0	0			
104	0.05	0.05	0.05	-7.74	-0.05	-0.05	-0.05	7.77													
IC501	0.19	5.13	5.11	0	0	5.13	0	4.88	0.28	4.97	0.19	4.74	0.43	5.13							
502	0.42	0.01	8.12	5.10	0.51	4.54	2.55	4.54	5.13	4.55	5.13	0	5.10	5.10							
504	_	3.89	3.90	_	0	8.11	0.01	0.01	_												
505	_	0.68	0		0	8.84	_	_	_												
506	9.37	0.08	0.06	9.27	9.37	0	0	0	9.37	9.44	0	9.44	0	9.44							
IC701	6.31	6.68	6.65	-9.04	6.65	6.68	6.21	9.43													
IC901	5.88	-0.63	0	0	-5.85	0	0	-0.67	5.88												
902	0.07	0.01	0	-7.74	0.01	0.01	0.07	7.77													
904	0	0	0	-7.74	0	0	0	7.77													
905	0.01	0	0	-9.44	0	0	0.01	9.45													
906	0.03	0	-0.01	-8.25	0	0	0.04	8.26													
907	1.96	0.01	1.97	0.15	0	0	0.12	0	9.46												
909	8.04	0.01	7.5	8.04	8.04	9.08	6.12	-9.43	8.58	7.92	-6.01	-6.01	-9.37	-9.46	7.81	-9.54					
				,										1							
PIN No. Ref No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
IC503	_	0.28	0.19	0.42	2.98	5.13	5.13	5.10	5.10	0.42	0	0.06	7.95	0.25	7.38	_	_	_		0	0
702			-5.22	3.83	-19.80	-19.20	-19.00	-19.00	-11.00	9.43	9.36	9.36	9.36	8.27	8.26	0.13	0.13	9.43	9.43	9.43	_
703		0.81	9.4	0	0.04	-19.30	_	_	_	_	_	_	_	9.43	9.43	-12.30	-12.30	-12.30	-12.30	0.03	9.33
PIN No.										0.1	- 00	- 00	24	25	20	27	20	39	40	41	42
Ref No.	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		0.76	5.13	42
IC503	9.38	0.06	9.37	0	0	0	0	0	5.10	3.89	3.9		5.09		0.01	0.02	0.04	7.66	0.76	3.13	
					10.5	10.75	10.55	10.00	10.00	10.00	10.00	10.50	10.50	10.00	10.50	-1.70	-11.00	-10.30			
IC702	-19.20	-5.27	_		-18.50		-10.00	-10.00	-10.30	-19.00	-19.20	-10.50	-10.50	-10.30	-10.50	-1.70	-11.00	-10.30			
IC703	9.27	_	0	9.38	-0.13	0	_														

				,					-		
PIN Name Ref No.	E (S)	(D)	(G)	PIN Name Ref No.	E (S)	(D)	B (G)	PIN Name Ref No.	E (S)	(D)	B (G)
Q101	-0.66	-0.66	-0.22	Q501	0.42	0.76	0	Q901	0	0.01	0.66
102	0	-0.03	-5.98	502	3.00	0.76	0	902	0.18	-9.42	0.01
103	0	0	0.63	503	0	9.36	0	906	0.18	8.03	0.04
104	0	0	0.63	.505	10.13	15.00	10.13	907	-9.42	-9.19	-8.64
105	0	0.01	0.63	506	-15.40	-10.70	-15.40	908	9.45	9.43	8.79
106	0.06	0.07	-5.98	507	9.46	13.35	10.13				
107	0	0	0	508	5.81	10.13	6.42				
108	0	0	0	509	-9.44	-13.80	-10.10				
109	0	-0.05	-6.00	510	0	-10.70	-0.62				
110	0	0	0.62	511	8.85	14.20	9.48				
111	0	0	0.63	512	5.13	8.11	5.81				
112	0	0	0.63	513	-10.10	-13.80	-10.70				
113	0	0	-5.98								
114	0	0	-9.37	Q701	-5.29	-5.27	-4.50				
115	0	0	-6.00	702	-11.20	9.43	-11.00				
116	_	_	_	703	-11.00	9.43	-10.60				
117	0	0	0	704	-19.00	-19.10	-18.60				
118	0	0	0.66								
119	0	0	-0.67								

Voltage values are measured by the following meter without input signal at NR SW = OFF, Tape Select = NORMAL in recording mode.

(meter=Electronic Voltmeter)

P.C. Board Parts (Amplifier)



P. C. Board Parts List

 \triangle parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

		T -	T _	Τ	
	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC504,505	BA6208A	I.C.		2
	IC907 IC502	LA2000S LA6339	,,	M. Scan	1
	IC503	LM6402H-139	"	Mecha. Control	1
	IC102,104	M5218L	"		8
	202,204, 902,904,				
	905,906,				
	IC901	M5220L	"		1
	IC909 IC101,103,	M54580P NE652N	,,	Dolby NR	1 4
	201, 203	11/203211		Boiby NIT	7
	IC501,506	TC4069UBP	"		2
Δ	Q510, 513	2SA733A(P,K)	Transistor		4
	902, 908		,,		
-13	Q509 Q102-113,	2SB772(Q,P) 2SC945L(P,K)	"		36
	117, 118,	2503452(1,10)			30
	202-213,				
	217, 218, 501–503,				
	508, 512,				
	901, 906, 907				
ł	Q114, 115,	2SD1302(RST)TA	"		4
	214, 215	000000(0.0)	,,		
77	Q507, 511 Q101, 119,	2SD882(Q,P) 2SK246(GR)E2	F.E.T.		2 5
	201, 219,				
1	506 Ω505	2SK301(R,S)TA	Transistor		1
	Q505	23K3UT(N,3/TA	Transistor		'
	D523, 922,	MA165	Si. Diode		4
	923, 924 D921	SLR-55MC50F124	LED		1
	D919, 920	SLR-55URC50F124			2
	D501-515,	1SS119	Si. Diode		32
	521, 524, 901, 903,				
	904–906,				
	908–910,				
ŀ	912–918 D522	10E1-B	Si. Diode		1
	D516-519,	10E2-B	"		4
	526-528 D902, 520	RD5.6(B3)	Ze. Diode		2
		1100.0(63)	Ze. Diode		
- 1	VR901	QVM4A7X-125 QVN6A7A-014	V. Resistor		1
- 1	VR903 VR101-103	QVZ1802-223	,,		1 8
	106, 201,				
	202, 203, 206				
+	VR104,204	QVZ3501-473	"		2
	VR902	QVZ6201-003	"		1
- 1	CN505,904	E04365-005	Connector		2
- 1	CN506 CN507,508,	" -007 QMV5005-003	"Plug		1 3
	903	ZIVI V 5005-003	i iug		3
	CN502	'' -004 '' 006	Connector		1
	CN501,503, 504	" -006	Plug		3
	CN901,902	QMV5010-004	Connector		2

			1	1		
	Ref.	No.	Parts No.	Parts Name	Remarks	Q'ty
	S501-	-510	QSP0301-002	Push Switch		10
	S513		QSS2301-102	Slide Switch		1
	S904		QST5102-V02	Push Switch		1
Δ	S901-	-903	QST5341-V03	"		1
	L901		VGC0008-001	Block		1
	L106,		VQP0001-183S	Inductor		2
	L105,		" -332S " -562S	"		2 2
	L101,		VQZ0013-001S	Filter		2
	L102,		" -002S	"		2
	L103,	203	VQZ0016-001	"		2
Δ	R572,	943	QRD129J-	C. Resistor		2
Δ	R586,	944,	QRD149J-	"		3
4	945			,,		
		-109,	QRD161J-	"		307
		-114, -127,				
		- 127, 135,				
		, 139,				
		– 143,				
		-156,				
		– 168,				
		– 176,				
		<u>–186,</u>				
		– 199, 200				
		-209, -214,				
		-214, -227,				
		-235,				
		, 239,				
		-243,				
	249-	-256,				
		-268,				
		–276,				
		–286,				
		-307,				
		-314, -407,				
		-407, -414,				
1		-511,				
		516,				
		-523,				
	526-	-528,				
		-534,				
		-553,				
		-560,				
		-570, -581,				
		-596,				
-		-914,				
		917,				
	919-	-922,				
		925,				
		928,				
		931,				
		-936,				
		939,				
		-949, -955,				
1		-900, -962				
Δ	R583,		QRX019J-5R6	M.F. Resistor		2
	R584		" -8R2	"		1

Ref. No.	Parts No.	Parts Name	Remarks	Q't
CT501	CSB800A	Lock		1
C504, 505,	QCF11HP-	C. Capacitor		19
508-513,	20, ,,,	o, supusitor		'
522, 525,				
526, 905,				
906, 912,				
913–915,				
922, 933,				
C101, 102,	QCS11HJ-	"		17
109, 111,				
155, 162,				
173, 201,				
202, 209,				
211, 255,				
262, 273,				
502, 503,				
518				
C172, 272	QCS12HJ-	"		2
C172, 272	QEN41EM-	E. Capacitor(NP)		12
139, 141,	QLIV41 LIVI-	L. Capacitor(IVI)		'2
156, 170,				
215, 218,				
239, 241,				
256, 270	OFNIALLINA	,,		10
C104, 119,	QEN41HM-			10
131, 142,				
143, 204,				
219, 231,				
242, 243				-
C105, 205,	QET41AR-	E. Capacitor		20
516, 517,				
519, 520,				
523, 527,				
901, 902,				+
908, 909,				
916–919,				
921, 931,				
934, 935		,,		+-
C514, 515,	QET41ER-	"		4
923, 932				
C123-125,	QET41HR-	''		20
147—149,				
223–225,				-
247—249,				
501, 506,				
507, 910,				
911, 920,				
929, 930	05111			
C103, 108,	QFN41HJ-	M. Capacitor		22
116, 117,				
132, 133,				
138, 140,				
160, 171,				-
203, 208,				
216, 217,				
232, 233,				
238, 240,				
260, 271,				
925, 927				1
C106, 107,	QFV41HJ-	T.F. Capacitor		46
112, 113,				
120-122,				
				1
126, 127,				

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
C144-146, 150, 151, 161, 164, 166-169, 206, 207,	QFV41HJ-	T.F. Capacitor		
212, 213, 220—222, 226, 227, 236, 237, 244—246,				
250, 251, 261, 264, 266—269, 926, 928				
	VMA4194-001 VMJ3004-102 QMS6302-119 QMS3504-002 VMH4006-001	Shield Plate Jack Ass'y " " Heat Sink	Line IN/OUT H. Phone Remote Control	1 1 1 1
	VIVII 14000-001	ricat sink		'

P. C. Board Parts and Parts List

(Display)

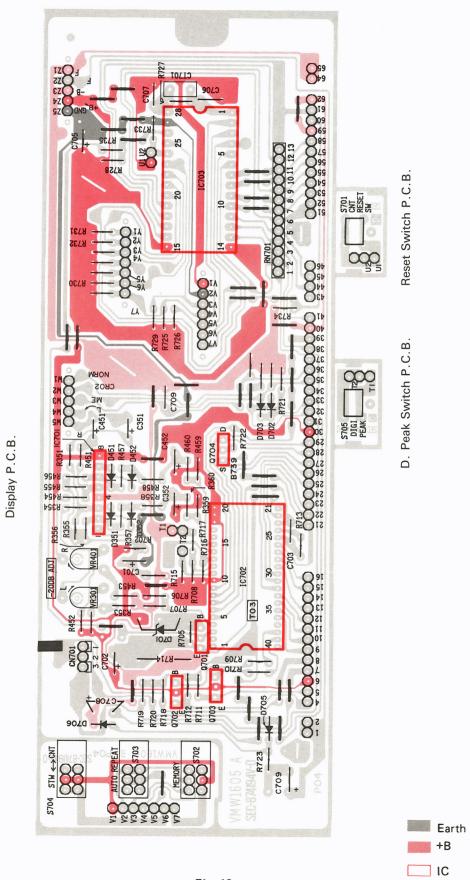


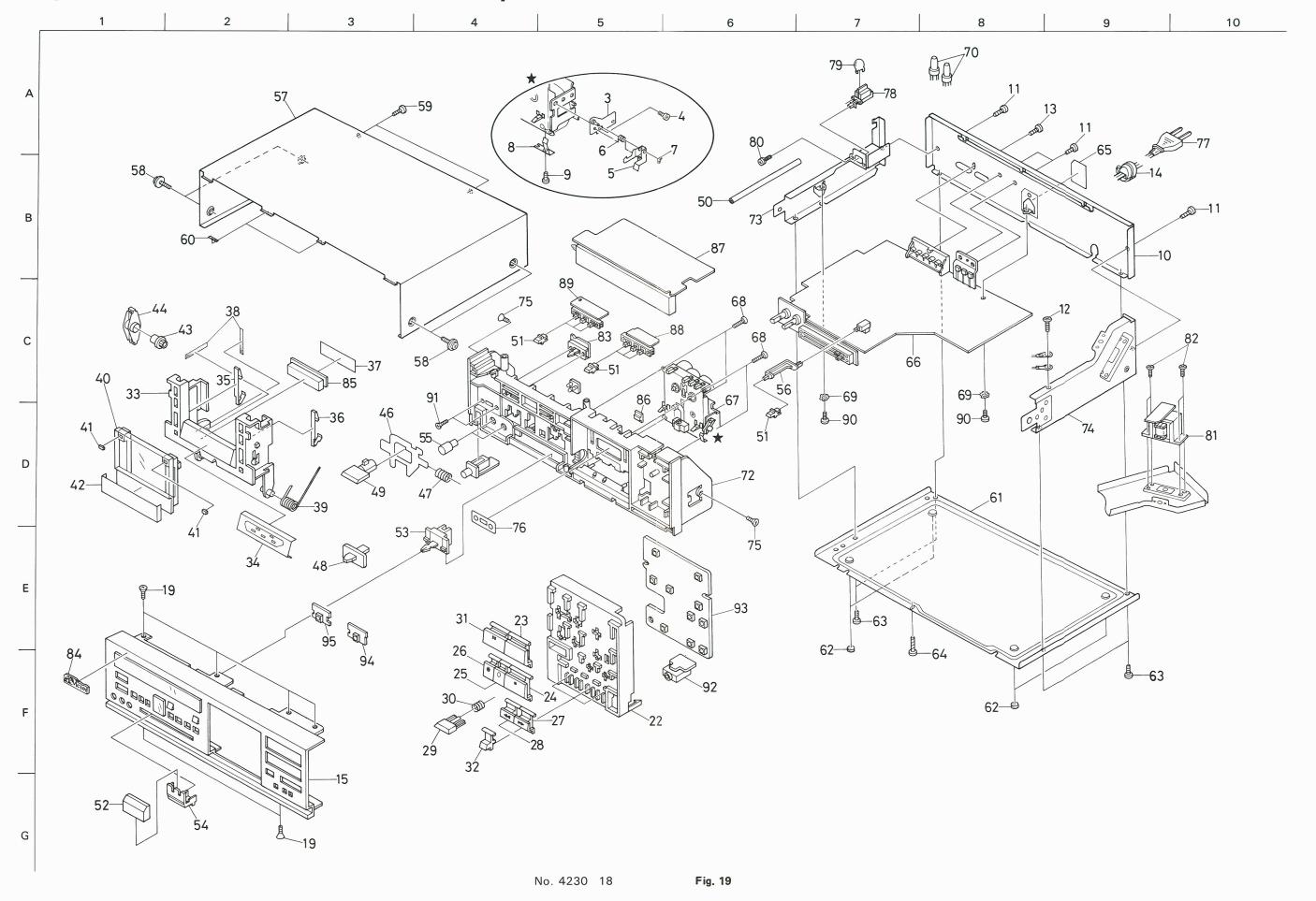
Fig. 18

⚠ Parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

\triangle	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	IC701 IC702 IC703 Q701–703 Q704	M5218L M58844-603SP UPD554C-088 2SC945L(P,K) 2SK246(GR)	I.C. " Transistor F.E.T.		1 1 1 3
	D351, 352, 451, 452, 702, 703, 705, 706 D701 VR301, 401 CN701	1SS119 RD13(B3) QVZ1802-223 VMC0007-003	Si. Diode Ze. Diode V. Resistor Connector		8 1 2 1
<u>^</u>	\$701, 705 \$702–704 R714 R727 R351–360, 451–460, 701, 702, 705–713, 715–723, 725, 726, 728–735	QSP0301-002 QST5341-V01 QRD121J- QRD141J- QRD161J-	Push Switch "C. Resistor ""		2 1 1 1 50
	RN701 CT701 C710 C703, 706, 707 C701, 705	VCR0003-001 CSB400P QCF11HP- QCS11HJ- QET41AR-	CR. Block Cela. Lock C. Capacitor "E. Capacitor		1 1 1 3 2
	C702, 708, 709 C351, 352, 451, 452	QET41ER- QET41HR-	"		3 4

No. 4230 17

Exploded view of Enclosure assembly



Enclosure Assembly Parts List

♠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

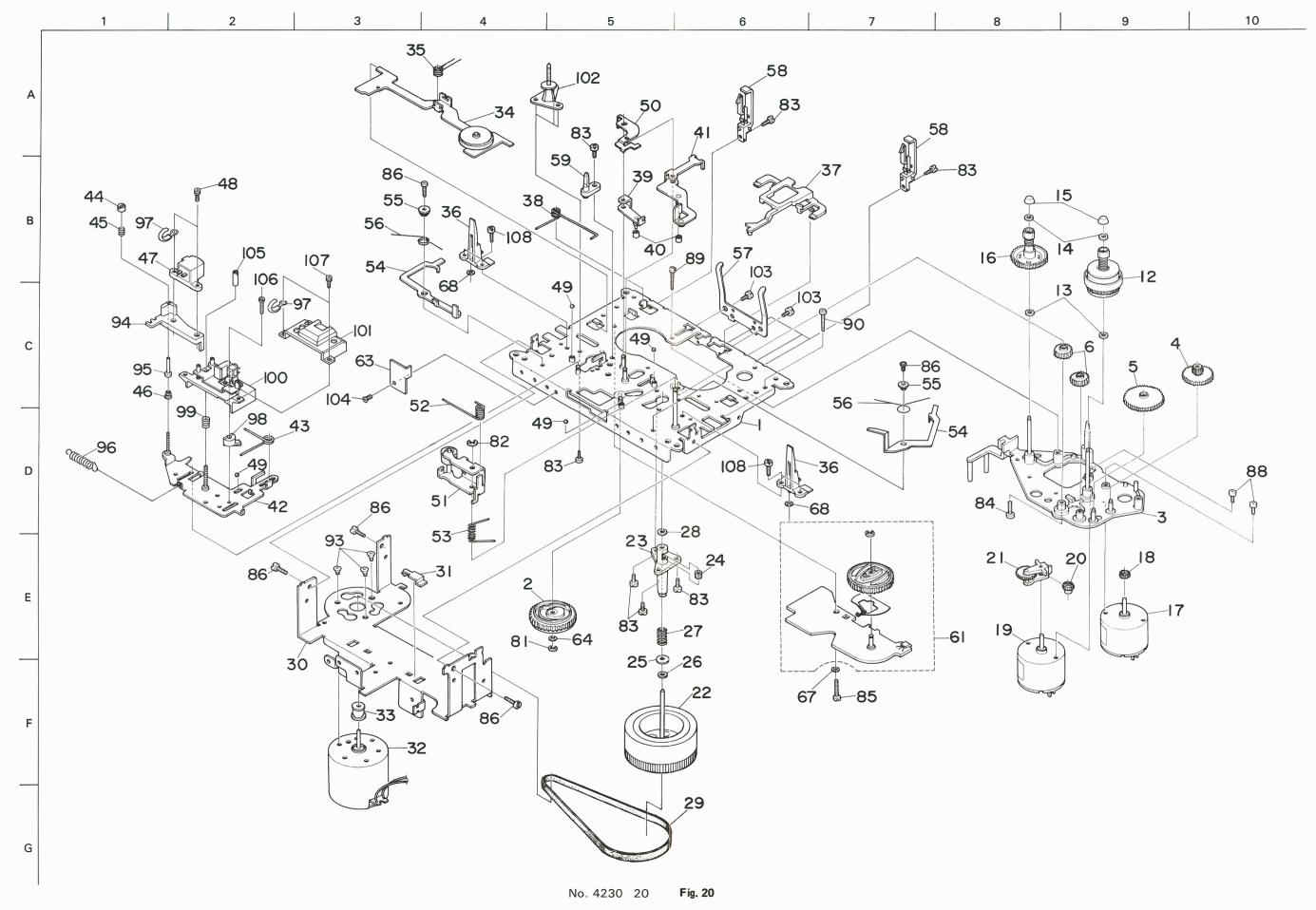
\triangle	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	3 4 5 6 7	VKL5324-00B SDST2604Z VKL3491-002 VKW4396-002 REE2500	Eject Bracket Ass'y Screw Eject Lever Spring E-Washer		1 1 1 1
	8 9 10 "	VKY4296-001 SDST2603Z VJC2127-005 "-005 "-006	Spring Screw Rear Panel	KD-V6C KD-V6J	1 1 1 1 1
\triangle	11 12 13 14	SDST3006N SDST3006Z SDSF3008N QHS3876-162	Screw " Cord Stopper	Rear Panel Earth Lug Pin Jack KD-V6A/C/E/J/U	4 1 1 1
	15 16 17 18 19	ZCKDV6Y-CBF VJK3217-002 VJK4206-002 VJD3437-002 SSSF3008Z	Front Plate Ass'y Finder Lens Escutcheon Screw	F. Panel/F. Panel	1 1 1 1 6
	20 21 22 23 24	VXP4347-001 " -002 VJD2210-001 VXP3098-001 " -002	Push Button Push Button Case Push Button ""	Reset PLAY STOP	1 1 1 1
	25 26 27 28 29	VXP3099-001 " -002 VXP3100-001 " -002 VXP4349-00A	"""""""""""""""""""""""""""""""""""""""	REC REC MUTE REW FF	1 1 1 1
	30 31 32 33 34	VKW3001-063 VXP3102-001 VXP4348-001 VJT2077-002 VJD4637-004	Spring Push Button Cassette Holder Plate	PAUSE IS/BS/MS	1 1 3 1
	35 36 37 38 39	VKY4271-003 "-004 VYSA1R4-066 F00303-34 VKW3006-091	Spring "Spacer "Spring		1 1 1 2
	40—42 40 41 42 43	ZCKDV6Y-CCA VJT4085-00A VJT4068-001 VJT4078-001 VYH5133-002	Cassette Lid Ass'y Lid Lid Plate		1 1 2 1
	44 46 47 48 49	VYH5134-002 VKL5490-002 VKW3001-077 VXS4041-005 VXP4345-001	" Timer Bracket Spring Slide Knob Push Button	TIMER	1 1 1 1
	50 51 52 53 54	VKS4003-008 VXP4346-001 VXS4116-001 VKS3183-001 VKS3184-001	Pipe Push Button Slide Knob Lever Slide Lever	COUNTER	1 7 1 1
	55 56 57 58 59	VXL4181-005 VYH5139-002 VJC2101-002 VKZ3001-004 SDST3006N	Knob Arm Top Cover Screw		2 1 1 4 2
	60 61 62 63 64	VYSA1R8-027 VJC1195-004 VJF4003-002 SDST3006Z SBSF3010Z	Spacer Bottom Cover Foot Screw		2 1 4 4 1

KD-V6A/B/C/E/J/U

\triangle	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	65	VYN2117-002KA	Name Plate	KD-V6B	1
	"	" -003KA	"	KD-V6A	1
	"	" -004KA	"	KD-V6C	
	"	" -005KA	11 11	KD-V6E	1
	",	" -006KA	"	KD-V6J	1 1
		" -007KA		KD-V6U	1
	66	_	Main Amp. Ass'y		1
	67 68	SDSF3010C	Mechanism Ass'y Screw	Mecha./Front Panel	4
	69	WBS3000N	Washer	Wedna,/ Front Fund	2
\triangle	70	TAW000504-01	Connector	KD-V6U/C/J	2
	72	VJC1311-001	Front Panel		1
	73	VKL3488-001	Amp. Chassis (L)		1
	74	VKL3494-001	" (R)		1
	75	SSST3006Z	Screw	Front Panel	2
	76	VJD4437-004	Dial Plate	"	1
\triangle	77	QMP1200-200	Power Cord	KD-V6C	1
<u>^</u>	"	" -200	"	KD-V6J	1 1
		QMP2560-200	"	KD-V6A	1
	"	QMP3900-200	"	KD-V6E KD-V6U	1
<u> </u>	,,	QMP7600-200 QMP9017-008BS	"	KD-V60	1
<u>^</u>	78	QSP1110-305	Push Switch	KD-V6E	i
\triangle	"	" -305	"	KD-V6A	1
A	"	" -305BS	"	KD-V6B	1
\triangle	"	··· -306	"	KD-V6U	1
<u>^</u>	"	" -308	"	KD-V6C	1
	"	" -308	"	KD-V6J	1
A	79	QCZ9014-103	C. Capacitor	KD-V6C	1
<u> </u>	"	" -103	"	KD-V6J	1
	80	LPSP3006Z	Screw	Push Switch	1
<u>^</u>	81	VTP57A5-021B "-021B	Power Transformer	KD-V6J KD-V6C	1
\triangle	,,	VTP57C5-021B	"	KD-V6C	1 1
	"	" -021B	"	KD-V6E	1
<u>↑</u>	"	" -021BS	"	KD-V6B	1
	"	VTP57U5-011B	"	KD-V6U	1
	82	SDST3006Z	Screw	P. Trans.	3
	83	_	Timer Switch Ass'y		1
	84	E70913-001	Mark		1
	85	SLA-5641-05	Module		1
	86	LD-702YU	L.E.D.		1
	87	_	Display Ass'y Counter Switch Ass'y		1
	88	_	NR/MPX Switch Ass'y		1
	89 90	SDST3006Z	Screw		2
	90	SSSP2606Z	Screw "		2
	92	_	Remote Control Jack Ass'y		1
	93	_	Operation Switch Ass'y		1
	94	_	Headphone Jack Ass'y		1
	95	_	Digital Peak Switch Ass'y		1

No. 4230 19

Exploded view of Mechanism assembly



Mechanical Component Parts List

⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

A	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VKL2175-00B	Chassis Base		1
	2	VKS2122-001	P. Roller Cam		1
	3	VKL2173-00A	Base		1
	4	VKR3001-001	Gear (2)		1
	5	" -002	" (2)		1
	6	VKR3000-001	Gear (1)		2
	12	VKR4312-00B	Reel Disk Ass'y		1
	13	VKZ4003-010	Spring		1
	14	" -010 VKR4170-001	Ring	Disk	1
	"	" -001	"	Disk	1
	15	VKS4131-001	Reel Stopper	DISK	li
	"	′′ -001	"		1
	16	VKR4318-00A	Reel Disk		1
Æ	17	MMN-6C2RK	DC Motor	Cam	1
	18	VKR4326-001	Gear	Cam Motor	1
\triangle	19	MMN-6C2RK	DC Motor	Reel	1
	20	VKR3000-003	Gear (1)	Reel Motor	1
	23 24	VKF4122-00A VKR4180-001	C. Metal Ass'y Roller	Take-up	1 1
	25	Q03093-622	Washer	Take-up	1
	26	′′ -827	vvasner	Thrust	1
	27	VKW3001-010	Spring	"	1
	28	Q03093-522	Washer	Oil Cut	i
	30	VKL3410-006	F.M. Bracket		1
	31	VKS4437-001	Thrust Plate		1
\triangle	32	BFA2L74	DC Motor	Capstan	1
	33	VKR4317-001	Motor Pulley		1
	34	VKL3411-00B	Take-up Idler		1
	35	VKW3006-099	Spring	Take-up	1
	36	VKS4505-003	Cassette Guide		2
	37	VKS3162-002	Brake Bar		1
	38 39	VKW4380-001 VKL5316-00A	Spring Arm		1
	40	VKH3000-058	Collar		1
	41	VKL3421-00A	Pinch Roller Lever A		1
	42	VKH3000-058	Collar		i
	43	VKW4467-002	Spring		1
	44	VKH4240-001	Adjust Screw		1
	45	VKW3001-040	Spring		1
	46	VKW4430-001	Spring		1
	47	VGH0212-103	Eraser Head Screw	E Hood	1
	48 49	LPSP2005Z T41615-004	Steel Ball	E. Head	2 4
	50	VKY4278-001	Spring Plate		1
	51	VKP4131-00B	Pinch Roller		1
	52	VKW3006-056	Spring		1
	53	′′ -057	, ,,		1
	54	VKL5553-001	Lock Lever		1
	55	VKH4418-001	Flange Collar	Door Safety	1
	56	VKW3006-061	Spring	Door Safety	1
	57	VKY4279-001			1
	59 61	VKS4512-002 VKZ3111-00A	Guide Post Switch	Cam Switch Ass'y	1
	63	VKL5398-001	Bracket	Calli Switch Ass y	1
	64	Q03093-834	Washer		1
	67	WNS2600N	wasilei "		1
	68	Q03093-630	"		2
	81	REE2000	E. Ring		1
	82	REE2500	E. Washer		1

\triangle	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	83	HPST2605Z	Screw		11
	84	HDST2608Z	"	D. Base Unit	1
	85	HPST2612Z	"	"	1
	86	HDST2605Z	"	F.M. Bracket	3
	"	HDST2605Z	"		1
	"	HPST2605Z	"		1
	88	DPSP2608Z	"	Reel Motor	1
	"	DPSP2608Z	"	Cam Motor	1
	89	SPSP2613Z	"	Reel Motor	1
	90	SPSP2615Z	"	Cam Motor	1
	93	SSSP2604Z	"	Capstan Motor	3
	94	VKF4110-001	E. Head Lever		1
	95	VKH3001-041	Flange Collar		1
	96	VKW3002-138	Spring		1
	97	VKZ4001-009	Holder		2
	98	VKS4536-002	Head Collar		1
	99	VKW3001-094	Spring		1
	100	VDG2117-M0A01A	V6 Head Ass'y		1
	101	VKZ3110-001	Head Cover		1
	102	VKS4598-00A	Holder	Tension	1
	103	HPST2604Z	Screw		2
	104	SSST2604Z	"	Bracket	1
	105	VKH4411-001	Azimuth Screw		1
	106	SPSX2010N	Screw		1
	107	LPSP2004Z	"		2
	108	HDST2605Z	"	Cassette Guide	4

Packing

Positions of controls and switch knobs at remarked packing:

POWER switch OFF
TIMER switch OFF
MPX, NR switch OFF
MONITOR switch TAPE
MEMORY switch . . . OFF
COUNTER (STOP WATCH) . OFF
OUTPUT LEVEL control . . MAX
INPUT LEVEL MIN
INPUT BALANCE . . . Center (click)

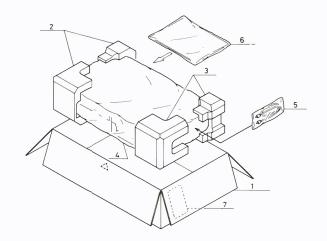


Fig. 21

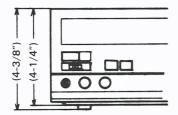
Packing Parts List

Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
1	VPD2117-J02	Carton	KD-V6B	1
"	" -J03	"	KD-V6A	1 1
"	" -J04	"	KD-V6C	1 1
"	" -J05	"	KD-V6E	1 1
"	" -J06	"	KD-V6J	1
"	" -J07	"	KD-V6U	1
2	VPH3125-001	Cushion	Left	1 1
3	VPH3126-001	"	Right	1
4	VPE3004-026	Poly Bag	Unit	1
5	AP4056A-36	"	Pin Cord	1
6	VPE3004-001	"	Instruction Book	1
7	E66416-003	Envelope	KD-V6J/U Warranty	1 1
	VPK4002-006	Sheet	Unit	1
	VPZ4001-001	Serial Ticket		2

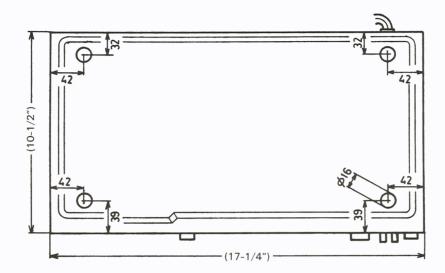
Accessories

\triangle	Parts No.	Parts Name	Remarks	Q'ty
	VNN0126-301	Instruction Book	KD-V6B/E	1
	·· -901	"	KD-V6A/C/J/U	1
	BT20060	Guaranty Certificate	KD-V6B	1
	BT20066	"	KD-V6B	1
	TJL000420-01	Label	KD-V6B Made in Japan	1
	QZL1002-003	Warning Label	KD-V6	1
	VND4113-001	G. Caution	KD-V6B/J	1
	BT20029C	Warranty Card	KD-V6A	1
	BT20025G	"	KD-V6C	1
	BT20057	"	KD-V6E	1
	BT20047A	"	KD-V6J/U	1
	BT20071	Service Center List	KD-V6C	1
	BT20046B	Special Reply Card	KD-V6J/U	1
	BT20044	Safety Instruction	KD-V6J	1
	T44362-001	CSA Label	KD-V6C	1
	VNC1200-002	Copyright Law	KD-V6C	1
	VNC5004-001	Mark Sticker	KD-V6E	1
	VND4013-001	Warning Label	KD-V6E	1
	VND4037-002	F. Mark	KD-V6E	1
	VNC5311-201	Caution Card	KD-V6U (EES)	1
	V04062-001	Siemens Plug	KD-V6U	1
	VMP0002-00B	Pin Cord Ass'y		2

Dimensions



unit: mm





VICTOR COMPANY OF JAPAN, LIMITED.
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city 371, Japan



Safety precaution

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.

For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

- 2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by then necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (1) on the schematics and parts list in Service manual. The use of a substitutue replacement which does not have the same safety characterisitics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.

5. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method.

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or mroe sesitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 µF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.).

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured musy not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).

